CLAIMS

1. A motor cover having a resin-made cover main body to be fixed by insert molding in a state where first and second metal parts are spaced from each other, the motor cover covering a case body to be provided to an electric motor, the motor cover comprising:

a flow-in portion in which a resin material is cast when the cover main body is insert-molded; and a branch portion which is formed so as to be branched to the flow-in portion and in which the resin material is cast via the flow-in portion, the flow-in portion and the branch portion being provided in the first metal part,

wherein a portion of the second metal part is disposed in the branch portion.

- 2. The motor cover according to claim 1, wherein a cross-sectional area perpendicular to a longitudinal-directional axis line of the branch portion is formed smaller than a cross-sectional area perpendicular to a longitudinal-directional axis line of the flow-in portion.
- 3. The motor cover according to claim 1, wherein the first metal part is a heat sink, which is arranged so as to oppose a control circuit for controlling the electric motor and emits heat inside the case body to outside, and the second metal part is a power-feeding terminal electrically connecting the control circuit and the electric motor.

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- 4. The motor cover according to claim 3, wherein the flow-in portion and the branch portion are formed into a groove shape in the heat sink.
- 5. The motor cover according to claim 1, wherein the first metal part is exposed from only one surface of a front surface and a rear surface of the cover main body.
- 6. The motor cover according to claim 5, wherein a heat radiating resin portion contacting with the first metal part and a base portion supporting the heat radiating resin portion are provided in the cover main body, the heat radiating resin portion is formed of a thermal conductive resin material, and the base portion is formed of a resin material different from the thermal conductive resin material.
- 7. The motor cover according to claim 1, wherein the first metal part is formed of an aluminum material.
- 8. The motor cover according to claim 1, wherein the case body is formed of a conductor; a power-feeding unit controlling power feeding to the electric motor and electrically connected to the first metal part is contained in the case body; and, by a fixing member formed of a conductor, the cover main body is fixed to the case body and the first metal part is electrically connected to the case body.

- 9. The motor cover according to claim 8, wherein the power-feeding unit comprises a brush apparatus performing the power feeding to the electric motor.
- 10. The motor cover according to claim 8, wherein the power-feeding unit comprises a control circuit controlling the electric motor.
- 11. The motor cover according to claim 8, wherein the fixing member includes: a clip portion engaged with the case body and the cover main body and fixing the cover main body to the case body; and a contact portion formed so as to protrude from the clip portion and contacting with the first metal part.
- 12. The motor cover according to claim 8, wherein the contact portion is fixed by being press-fitted to a press-fitting portion provided in the first metal part.

13. An electric motor equipped with a case body and a motor cover covering the case body, the electric motor comprising:

a resin-made cover main body to be fixed by insert molding in a state where first and second metal parts are spaced from each other, the cover main body being provided in the motor cover; and

a flow-in portion in which a resin material is cast when the cover main body is insert-molded, and a branch portion, which is formed to be branched to the flow-in portion and in which the resin material is cast via the flow-in portion, the flow-in portion and the branch portion being provided in the first metal part,

wherein a portion of the second metal part is disposed in the branch portion.

- 14. The electric motor according to claim 13, wherein a cross-sectional area perpendicular to a longitudinal-directional axis line of the branch portion is formed smaller than a cross-sectional area perpendicular to a longitudinal-directional axis line of the flow-in portion.
- 15. The electric motor according to claim 13, wherein the first metal part is a heat sink, which is arranged so as to oppose a control circuit controlling the motor main body and emits heat inside the case body to outside, and the second metal part is a power-feeding terminal electrically connecting the control circuit and the motor main body.

- 16. The electric motor according to claim 15, wherein the flow-in portion and the branch portion are formed in a groove shape in the heat sink.
- 17. The electric motor according to claim 13, wherein the first metal part is exposed from only one surface of a front surface and a rear surface of the cover main body.
- 18. The electric motor according to claim 17, wherein a heat radiating resin portion contacting with the first metal part and a base portion supporting the heat radiating resin portion are provided in the cover main body; the heat radiating resin portion is formed of a thermal conductive resin material; and the base portion is formed of a resin material different from the thermal conductive resin material.
- 19. The electric motor according to claim 13, wherein the first metal part is formed of an aluminum material.
- 20. The electric motor according to claim 13, wherein the case body is formed of a conductor; and a power-feeding unit that controls power feeding to the electric motor and is electrically connected to the first metal part is contained in the case body; and body by a fixing member formed of a conductor, the cover main body is fixed to the case body and the first metal part is electrically connected to the case body.

- 21. The electric motor according to claim 20, wherein the power-feeding unit comprises a brush apparatus performing the power feeding to the electric motor.
- 22. The electric motor according to claim 20, wherein the power-feeding unit comprises a control circuit controlling the electric motor.
- 23. The electric motor according to claim 20, wherein the fixing member includes: a clip portion engaged with the case body and the cover main body and fixing the cover main body to the case body; and a contact portion formed so as to protrude from the clip portion and contacting with the first metal part.
- 24. The electric motor according to claim 20, wherein the contact portion is fixed by being press-fitted to a press-fitting portion provided in the first metal part.